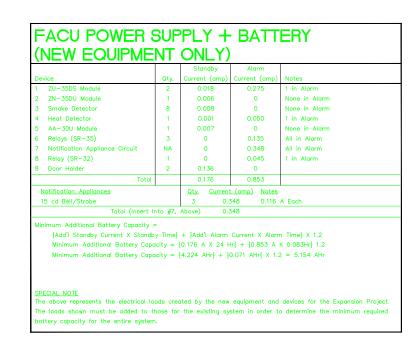
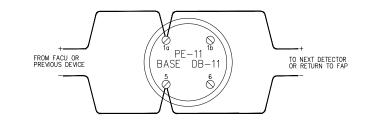
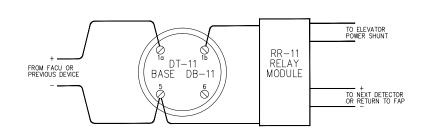
- 1) THIS DESIGN PROVIDES MODIFICATIONS TO AND EXTENSION OF THE EXISTING FIRE ALARM SYSTEM FOR BUILDING 64 TO ACCOMMODATE THE 2—STORY BUILD—OUT BETWEEN COLUMN LINES 8 AND 9. THE DESIGN PROVIDES NEW SPOT—TYPE SMOKE DETECTORS (FOR AREA COVERAGE AS NOTED, FOR OPERATION OF SMOKEGUARD ASSEMBLIES AS NOTED, AND FOR OPERATION OF THE ELEVATOR RECALL AS NOTED); A HEAT DETECTOR (FOR ELEVATOR POWER SHUNT TRIP), A WATER FLOW SWITCH (FOR ALARM AND FOR ELEVATOR POWER SHUNT TRIP); A VALVE POSITION SUPERMISORY SWITCH; MANUAL FIRE CALL BOXES; AND AUDIBLE/VISUAL, AND VISUAL NOTIFICATION APPLIANCES. ALL INITIATING DEVICES & NOTIFICATION APPLIANCES SHALL BE COMPATIBLE WITH THE EXISTING NEW SIEMENS FIRE ALARM CONTROL PANEL (FAP). THE DEVICES AND APPLIANCES SHALL BE PROVIDED AND INSTALLED AS INDICATED IN THE DRAWMINGS, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72, NATIONAL FIRE ALARM CODE, AND THE SYSTEM SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LISTINGS AND APPROVALS.
- 2) THESE DRAWINGS ARE DIAGRAMMATIC IN THAT EXACT DEVICE, APPLIANCE, AND EQUIPMENT LOCATIONS, CONDUIT ROUTING, CONDUIT SUPPORT AND CONSTRUCTION DETAILS ARE TO BE DEVELOPED BY THE SUBCONTRACTOR.
- 3) THE DETAILS SHOWN ARE DIAGRAMMATIC AND REPRESENT FEASIBLE CONNECTIVITY. THE SUBCONTRACTOR MAY MODIFY THE CONNECTIVITY TO SUIT FIELD CONDITIONS PROVIDED THAT THE NOTIFICATION APPLIANCE AND INITIATING CIRCUIT LOADS DO NOT EXCEED THOSE SPECIFIED IN THE LISTINGS AND APPROVALS FOR EACH MANUFACTURER'S PIECE OF EQUIPMENT.
- 4) THE EXISTING FAP AND CIRCUITS SHALL BE MODIFIED AS NECESSARY TO PROVIDE THE DESIRED FUNCTIONS. THE SUBCONTRACTOR SHALL PROVIDE THE NECESSARY AND APPROPRIATE CONDUCTORS/CABLING BETWEEN THE FAP AND THE NEW DEVICES AND APPLIANCES.
- 5) ELEVATOR CAPTURE AND RECALL SHALL BE PROVIDED. PROVIDE AND INSTALL THE NECESSARY EQUIPMENT FOR RECALL TO THE DESIGNATED PRIMARY FLOOR (1ST FLOOR) AND TO THE DESIGNATED SECONDARY FLOOR (SECONDARY FLOOR).
- 6) ALARM SIGNALS (FROM THE HEAT DETECTOR PROVIDED IN ELEVATOR MACHINE ROOM) AND THE WATERFLOW SWITCH (PROVIDED FOR THE SPRINKLER IN THE ELEVATOR MACHINE ROOM) SHALL CAUSE A POWER SHUNT TRIP FOR THE ELEVATOR POWER.
- 7) ANY FIRE ALARM SIGNAL SHALL CAUSE ALL NOTIFICATION APPLIANCES (EXISTING AND NEW) TO OPERATE. ANY FIRE ALARM SIGNAL SHALL ALSO CAUSE AN ALARM SIGNAL TO BE TRANSMITTED TO THE UNIVERSITY'S RECEIVER VIA THE EXISTING MX-203 TRANSMITTERS.
- ANY SUPERVISORY OR TROUBLE SIGNAL SHALL CAUSE A LOCAL ALARM AT THE FAP TO OPERATE. ANY SUPERVISORY OR TROUBLE SIGNAL SHALL ALSO CAUSE A SUPERVISORY/TROUBLE SIGNAL TO BE TRANSMITTED TO THE UNIVERSITY'S RECEIVER VIA THE EXISTING MX-203 TRANSMITTERS.
- 9) ALL NEW CONDUIT SHALL BE ROUTED CONCEALED IN NEW CONSTRUCTION TO THE EXTENT PRACTICAL AND FEASIBLE.
- 10) THE NEW DUCT—TYPE SMOKE DETECTORS SHALL UTILIZE THE INITIATING ALARM ZONES FROM THE EXISTING FAP. THE NEW 1ST FLOOR DUCT DETECTORS SHALL BE TIED INTO THE EXISTING ALARM CIRCUIT EMANATING FROM THE ZU—35DS MODULE (MOD 13), TERMINATIONS 8 THROUGH 11. THE NEW 2DD FLOOR DUCT DETECTORS SHALL BE TIED INTO THE ALARM CIRCUIT EMANATING FROM THE ZU—35DS MODULE (MOD 13), TERMINALS DETECTORS SHALL BE TIED INTO THE ALARM CIRCUIT EMANATING FROM THE ZU—35DS MODULE (MOD 13), TERMINALS
- 11) THE NEW FIRE/SMOKE DAMPERS SHALL UTILIZE THE EXISTING 1ST AND 2ND FLOOR DAMPER POWER CIRCUITS.

N NAC	A = Load (amps) R = Resistance per 1,000 ft #14 (NEC Table 8)
ctual Conducto	or Conductor Resistance Voltage
ince (ft) Distance (ft) Gauge per 1,000 ft Drop
40 80	14 3.14 0.0291
45 90	14 3.14 0.0656
130 260	14 3.14 0.2841
	Total V-Drop 0.3788
nge of the appliances)	,
	of the appliances ower supply output

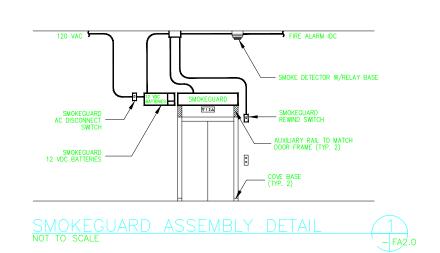


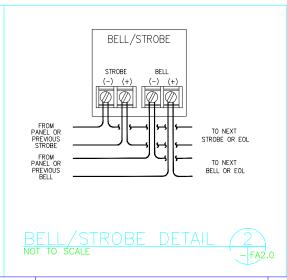


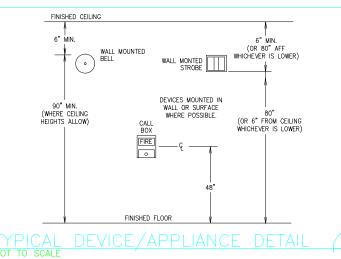












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HYT Corporation	
FIRE PROTECTION ENGINEERS - CONSULTANTS 3498 CLAYTON ROAD - SUITE 101, CONCORD, CALIFORNIA 94519 PHONE: (925) 681-2731 * FAX: (925) 681-2733	



REVISION 9/30/2008 9/30/08 AS BUILT ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, NUMBER BY CHECKED APPR'D DATE REMARKS

PROFESSIONAL SEAL (IF REVISION, APPLIES ONLY TO REVISED WORK)

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY NATIONAL LABORATOR FACILITIES DIVISION